



AN ACCESS INDEPENDENT COMMON ARCHITECTURE FOR REAL-TIME COMMUNICATIONS SERVICES FOR NETWORKING ENVIRONMENTS

Radhika R. Roy, et al.
Application No.: 10/748,707

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FIG. 1

The diagram illustrates a converged network architecture with the following components and connections:

- Network Resources:** A stack of three boxes labeled "NETWORK RESOURCE" with a total value of 140.
- Application Servers:** A stack of three boxes labeled "APPLICATION SERVER" with a total value of 40.
- Media Servers:** A stack of three boxes labeled "MEDIA SERVER" with a total value of 120.
- CALEA Server:** A single box with a value of 110.
- E911 Server:** A single box with a value of 100.
- Peer Network Border Element:** A single box with a value of 150.
- Call Control Element:** A central box connected to all other components.
- Network Functions:** A block containing:
 - Call Admission Control (value 90)
 - Network Routing Engine (value 70)
 - Server Broker (value 60)
 - User Profile Engine (value 80)
- Converged IP/MPLS Network:** A cloud-like shape connected to the Call Control Element and the Peer Network Border Element.
- Border Element:** A single box connected to the Converged IP/MPLS Network and the Access layer.
- Access:** A cloud-like shape containing three boxes with values 160, 130, and 130.

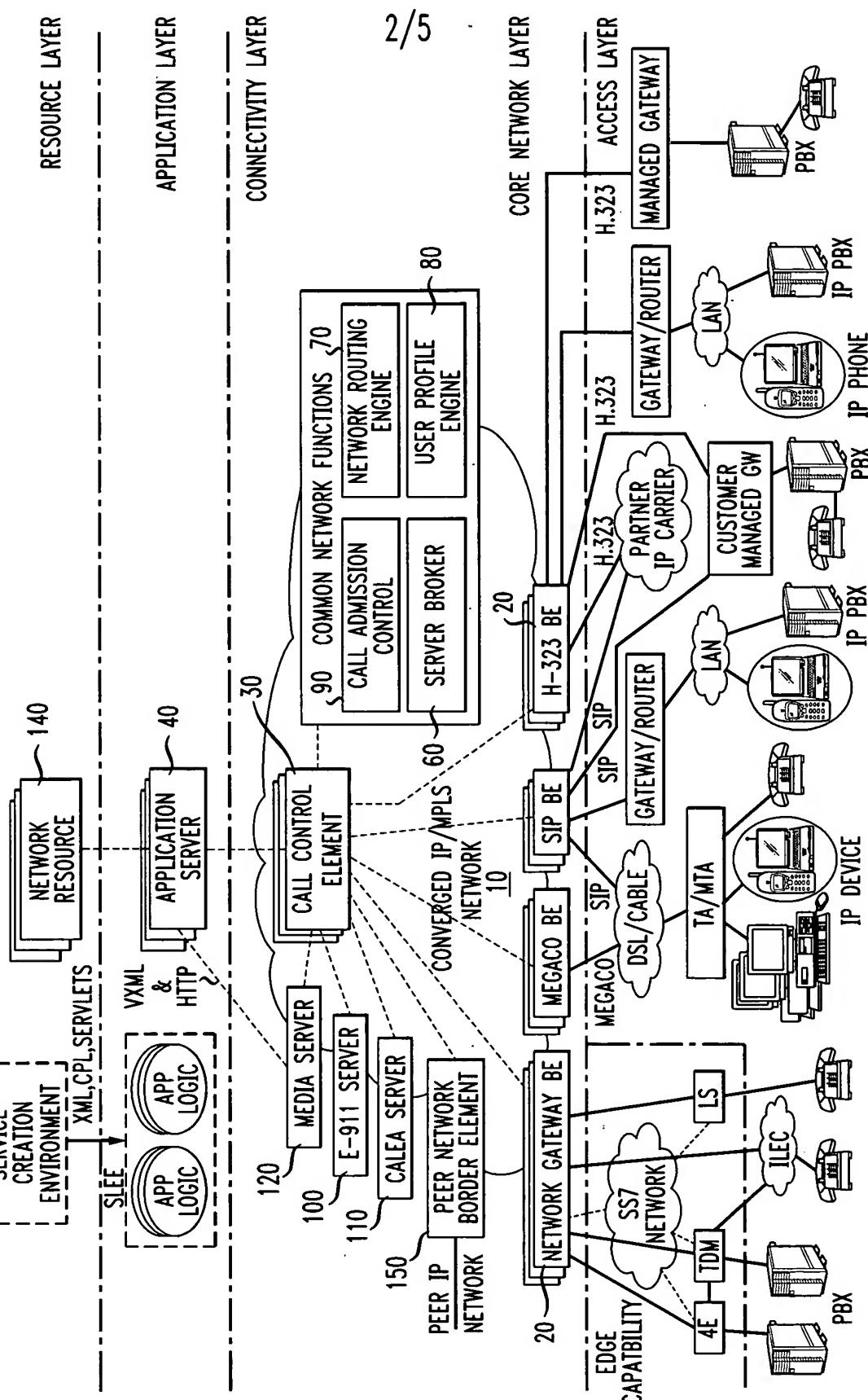
Arrows indicate the flow of traffic from the Network Resources, Application Servers, and Media Servers to the Call Control Element. The Call Control Element then routes traffic through the Network Functions and the Converged IP/MPLS Network to the Border Element, which finally connects to the Access layer. The Peer Network Border Element is also connected to the Converged IP/MPLS Network.

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FIG. 2

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FIG. 3

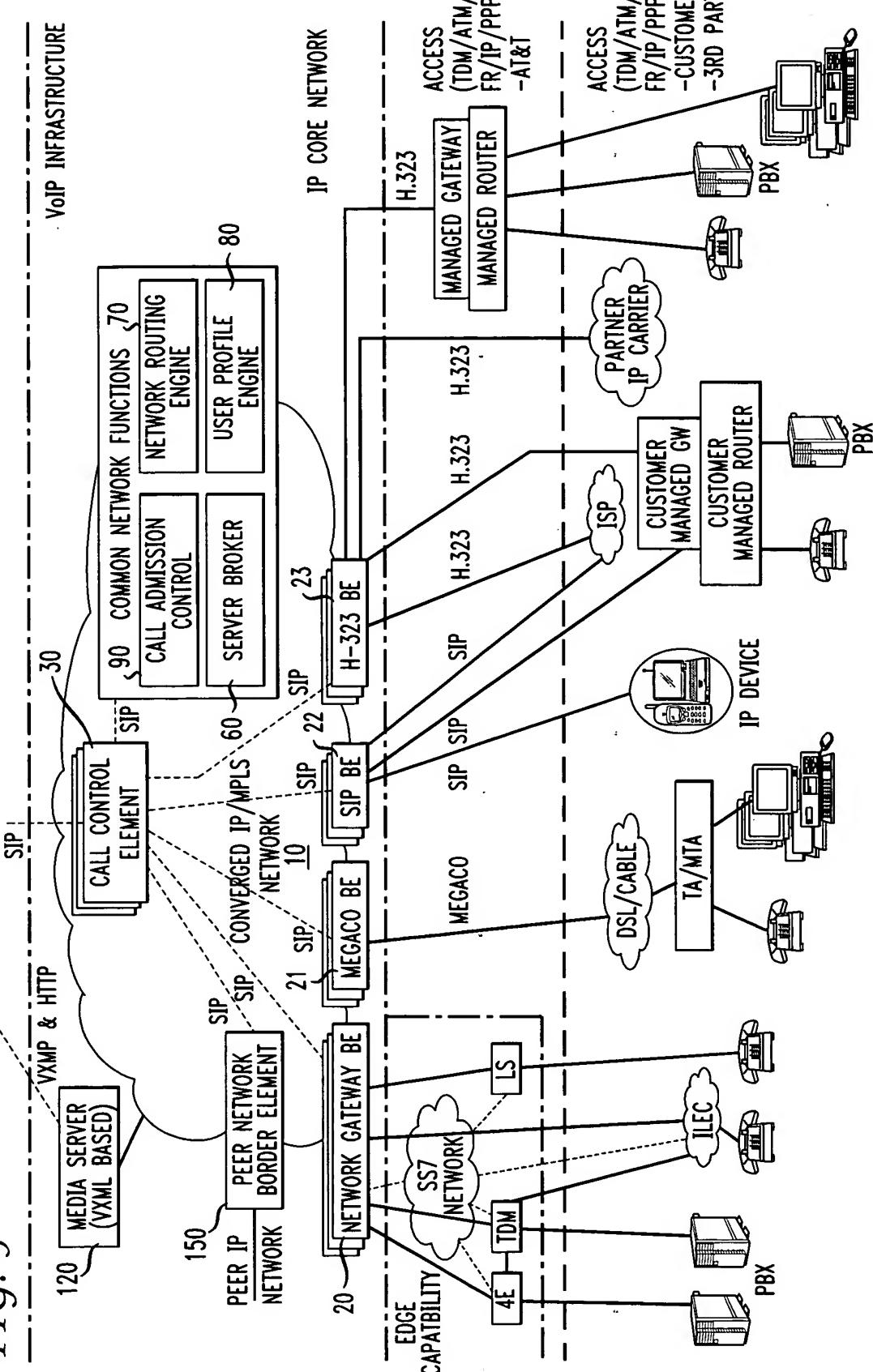
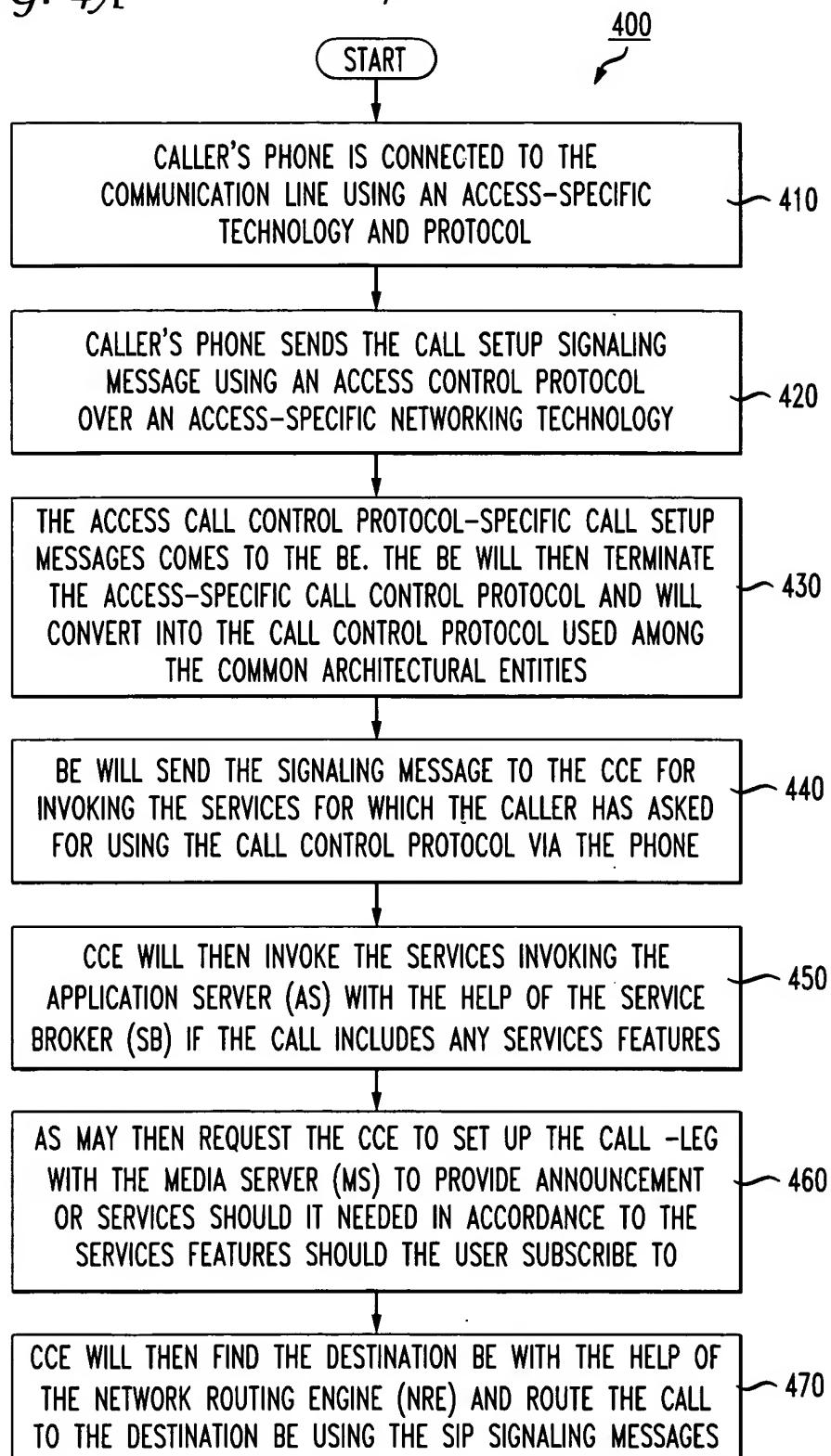


FIG. 4A

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A TO FIG.4B

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FIG. 4B

